



# thermasis

BIOMASS BOILERS & STOVES

**adding comfort  
to your life**

## WE HAVE LIT A FLAME AT ANATOLIA TO WARM YOUR HEART

We design and produce biomass boilers and stoves, for many years, for economical and comfort heating of your houses with latest technology and eco-friendly solutions.

We always focus on reliability and flexible design on our products to supply and serve our customers for different market demands all over the World.

[thermasis.com](http://thermasis.com)



**thermasis**  
BIOMASS BOILERS & STOVES



**Our mission** is to follow new technologies on design and production, expand our production and sales with optimum quality products and improve our service to our clients.

**Our vision** is to move THERMASIS brand to a well known level associated with quality and trust.

## Our portfolio today

- PELLET BOILERS
- PELLET STOVES (AIR AND HYDRO)
- PELLET INSERTS
- WOOD (GASIFICATION) BOILERS
- CAST IRON BOILERS

**Biomass is a renewable energy source**, generated from burning wood, plants and other organic matter, such as manure or household waste. It releases carbon dioxide when burned, but considerably less than fossil fuels.

Biomass heating systems burn wood pellets, chips or logs to provide warmth in a single room or to power central heating and hot water boilers. All biomass originally gets its energy from the sun – thanks to photosynthesis, biomass resources regrow in a relatively short timespan compared to fossil fuel resources that take hundreds of millions of years to replenish. As such, we won't run out of biomass to use for energy production.



# BIOMASS

## A REVOLUTION IN HOME HEATING

### ADVANTAGES OF HEATING WITH BIOMASS



#### Biomass helps climate change by reducing green-house gas emissions

- **Biomass is Carbon Neutral** All the CO<sub>2</sub> which has been absorbed by plant for its growth is going back in the atmosphere during its burning for the production of biomass energy.
- **Biomass is Eco-Friendly** Biomass is sustainable and friendly to the environment, reducing emissions of green-house gases and harmful substances. You can even use the ash produced by your wood pellet device to fertilize plants around your home and garden.

- **Efficient and Comfort** Biomass fuels are highly efficient, as they have high calorific value and low ash content.
- **Affordable and available heating fuel** Biomass is widely available, and can be found practically anywhere on the planet. Burning biomass is significantly cheaper than other heating options. Thanks to the growing competition of the source, the price of wood pellets remain relatively low and stable compared to fossil fuels.
- **Financial support** Biomass boiler systems could benefit from the Renewable Heat Incentive. Biomass pellet stoves with integrated boilers providing space heating are also covered by the scheme.





# PELLET BOILER CORTINA S

### Key features

- Compact dimensions thanks to its unique vertical design
- Exhaust fan speed modulation with encoder
- Burning pot made of stainless steel
- User friendly LCD display with multi-language
- Fuel level monitoring window
- Daily and weekly programming
- Manual burner cleaning
- Manual heat exchanger cleaning
- Outputs for DHW pump and 3-way valve



### Safety features

- Safety against back burning
- Fire protection
- Air pressure switch
- Anti-freeze function
- Pump anti-seizure function

### Optional

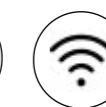
- Buffer tank
- Outdoor temperature sensor
- Remote with Wi-fi unit
- Additional fuel silo with level sensor



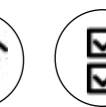
Extractable burn pot for easy cleaning



Daily / Weekly programming



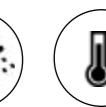
Wi-Fi option



Additional silo



DHW option



Outdoor temperature thermostat input



Pellet is the perfect choice for eco-friendly heating of our houses with high efficiencies and very low pollutants, thus reducing our overall carbon foot print.

Thermasis offers a wide and flexible range of pellet boilers for different demands, and supplies a variety of alternative solutions in very compact design.

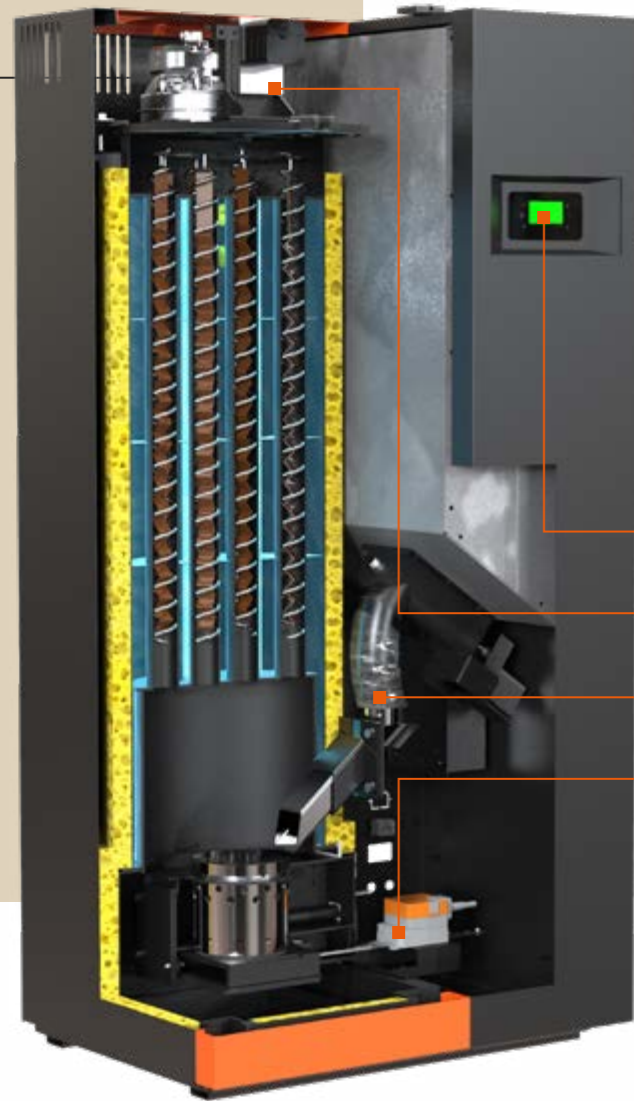
Our technology ensures optimum performance with calibration for installation and working conditions, thus guarantees an efficient and continuous comfort.



		CT 12S	CT 18S	CT 24S	CT 32S	CT 40S
Energy efficiency class		A+	A+	A+	A+	A+
Rated output	kW	4,5 - 15	5,7 - 20	7,8 - 26	10,2 - 34	13,5 - 45
Thermal efficiency	%	89,3 - 91,2	88,9 - 88,8	89,2 - 89	88,4 - 89,1	89,5 - 89,3
Water content	lt	44	40	45	70	76
Heatable volume	m³	250 - 350	300 - 475	400 - 625	500 - 800	700 - 1000
Maximum working pressure	bar	3	3	3	3	3
Pellet consumption	kg/h	0,95 - 3	1,2 - 4,2	1,7 - 5,6	2,1 - 7,2	2,6 - 9,5
Tank capacity	kg	75	75	90	100	115
Ø Flue outlet	cm	8	8	8	13	13
Net weight	kg	165	170	190	225	250
Dimensions H x W x L	cm	136 x 85 x 52	136 x 85 x 52	149 x 85 x 52	162 x 85 x 57	167 x 90 x 62
Power consumption	W	68 / 300	68 / 300	68 / 300	72 / 300	72 / 300
Burner / exchanger cleaning		Manual	Manual	Manual	Manual	Manual



# PELLET BOILER CORTINA X



### Key features

- Automatic burner cleaning
- Automatic heat exchanger cleaning
- Outputs for DHW pump and 3-way valve

■ Push-button LCD user panel with multi language

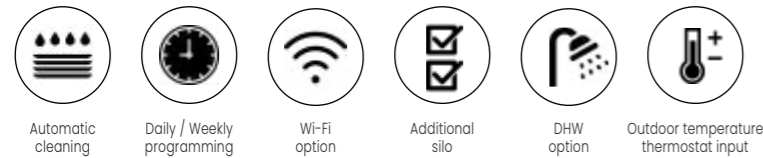
■ Automatic heat exchanger cleaning

■ Pellet drop chute with fire protection

■ Auto burner grate cleaning by linear actuator

### Optional features

- Buffer tank
- Outdoor temperature sensor
- Remote with Wi-fi unit
- Additional fuel silo with level sensor



		CT 12X	CT 18X	CT 24X	CT 32X	CT 40X
Energy efficiency class		A+	A+	A+	A+	A+
Rated output	kW	4,5 - 15	5,7 - 20	7,8 - 26	10,2 - 34	13,5 - 45
Thermal efficiency	%	89,3 - 91,2	88,9 - 88,8	89,2 - 89	88,4 - 89,1	89,5 - 89,3
Water content	lt	44	40	45	70	76
Heatable volume	m³	250 - 350	300 - 475	400 - 625	500 - 800	700 - 1000
Maximum working pressure	bar	3	3	3	3	3
Pellet consumption	kg/h	0,95 - 3	1,2 - 4,2	1,7 - 5,6	2,1 - 7,2	2,6 - 9,5
Tank capacity	kg	75	75	90	100	115
Ø Flue outlet	cm	8	8	8	13	13
Net weight	kg	170	175	195	232	257
Dimensions H x W x L	cm	136 x 85 x 52	136 x 85 x 52	149 x 85 x 52	162 x 85 x 57	167 x 90 x 62
Power consumption	W	85 / 300	85 / 300	85 / 300	88 / 300	88 / 300
Burner / exchanger cleaning		Automatic	Automatic	Automatic	Automatic	Automatic



# PELLET BOILER CORTINA S/X PACK

### Key features

- Integrated circulation pump, expansion tank, and safety valve inside the cabinet
- User friendly LCD display with multi-language
- Fuel level monitoring window
- Daily and weekly programming
- Outputs for DHW pump and 3-way valve

### Cortina -S PACK

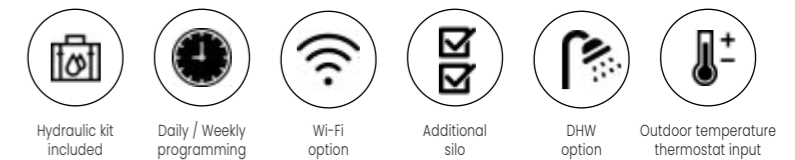
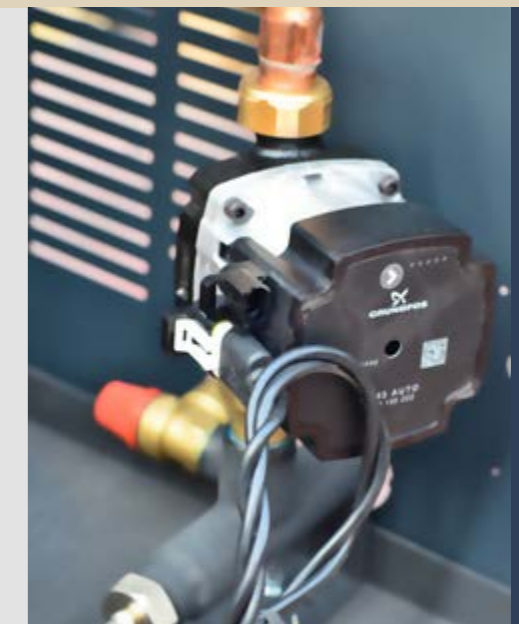
Manual burner cleaning  
Manual heat exchanger cleaning

### Cortina -X PACK

Automatic burner cleaning  
Automatic heat exchanger cleaning

### Optional

- Buffer tank
- Outdoor temperature sensor
- Remote with Wi-fi unit
- Additional fuel silo with level sensor



		CT 12 PACK	CT 18 PACK	CT 24 PACK
Energy efficiency class		A+	A+	A+
Rated output	kW	4,5 - 15 kW	5,7 - 20	7,8 - 26
Thermal efficiency	%	89,3 - 91,2	88,9 - 88,8	89,2 - 89
Water content	lt	44	40	45
Heatable volume	m³	250 - 350	300 - 475	400 - 625
Maximum working pressure	bar	3	3	3
Expansion tank	lt	10	10	10
Pellet consumption	kg/h	0,95 - 3	1,2 - 4,2	1,7 - 5,6
Tank capacity	kg	75	75	90
Ø Flue outlet	cm	8	8	8



# PELLET BOILER CARINA S

NEW  
PRODUCT



### Key features

- Compact dimensions
- Vertical two-pass flue circulation
- Exhaust fan speed modulation with encoder
- Burning pot made of stainless steel
- User friendly LCD display with multi-language
- Daily and weekly programming
- Manual burner cleaning
- Manual heat exchanger cleaning
- Outputs for DHW pump and 3-way valve
- Integrated circulation pump, expansion tank, and safety valve inside the cabinet
- Offers high fuel loading capacity in very compact design

### Safety features

- Safety against back burning, and fire protection
- Air pressure switch
- Anti-freeze function
- Pump anti-seizure function

### Optional

- Buffer tank
- Outdoor temperature sensor
- Remote with Wi-fi unit
- Additional budget silo with upper connection

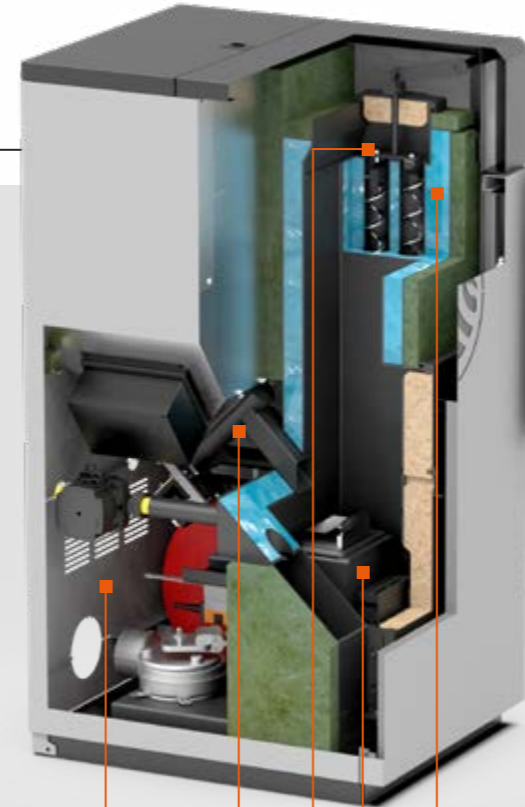


Extractable burn pot for easy cleaning    Hydraulic kit included    Daily / Weekly programming    Wi-Fi option    Additional silo    DHW option    Outdoor temperature thermostat input

		CAR 12S	CAR 18S	CAR 24S
Energy efficiency class		A+	A+	A+
Rated output	kW	3,65 - 12,2	5,45 - 18,5	7,35 - 24,6
Thermal efficiency	%	89,3 - 90,2	89,5 - 90,3	89,6 - 90,6
Water content	lt	30	34,5	54
Heatable volume	m³	250 - 325	300 - 450	400 - 600
Maximum working pressure	bar	2,5	2,5	2,5
Pellet consumption	kg/h	0,8 - 2,7	1,22 - 4,1	1,64 - 5,43
Fuel tank capacity	kg	48,5	48,5	74,5
Ø Flue outlet	cm	8	8	8
Expansion tank	lt	6	6	8
Net weight	kg	155	165	185
Dimensions H x W X L	cm	115 x 53 x 64	115 x 53 x 70	130 x 60 x 70
Power consumption	W	68 / 300	68 / 300	68 / 300
Burner / exchanger cleaning		Manual	Manual	Manual

# PELLET BOILER CARINA X

NEW  
PRODUCT



### Key features

- Automatic burner cleaning
- Automatic heat exchanger cleaning
- Outputs for DHW pump and 3-way valve
- Integrated circulation pump, expansion tank, and safety valve inside the cabinet

### Optional

- Buffer tank
- Outdoor temperature sensor
- Remote with Wi-fi unit
- Additional budget silo with upper connection

- Well insulated boiler body for high efficiency
- Auto burner cleaning via linear actuator
- Automatic heat exchanger cleaning
- Pellet drop chute with fire protection
- Easy access to all internal parts via service panel



Automatic cleaning    Hydraulic kit included    Daily / Weekly programming    Wi-Fi option    Additional silo    DHW option    Outdoor temperature thermostat input

		CAR 12X	CAR 18X	CAR 24X
Energy efficiency class		A+	A+	A+
Rated output	kW	3,65 - 12,2	5,45 - 18,5	7,35 - 24,6
Thermal efficiency	%	89,3 - 90,2	89,5 - 90,3	89,6 - 90,6
Water content	lt	30	34,5	54
Heatable volume	m³	250 - 325	300 - 450	400 - 600
Maximum working pressure	bar	2,5	2,5	2,5
Pellet consumption	kg/h	0,8 - 2,7	1,22 - 4,1	1,64 - 5,43
Fuel tank capacity	kg	48,5	48,5	74,5
Ø Flue outlet	cm	8	8	8
Expansion tank	lt	6	6	8
Net weight	kg	160	170	190
Dimensions H x W X L	cm	115 x 53 x 64	115 x 53 x 70	130 x 60 x 70
Power consumption	W	85 / 300	85 / 300	85 / 300
Burner / exchanger cleaning		Automatic	Automatic	Automatic



## ADDITIONAL SILO

Available for Cortina 12, 18, and 24  
 Designed to match boiler dimensions  
 250 liters additional fuel volume  
 Pellet level sensor ensures auto re-fuelling  
 Operation up to 10 days without re-fuelling

**Pack of additional tank includes;**

- Fuel tank
- Feeding screw
- Gearmotor
- Pellet level sensor
- Adaptor to boiler tank
- Wiring
- Flexible feeding hose



## WI-FI MODULE

4HEAT wi-fi module can control all Thermasis pellet boilers via smart phones or tablets (IOS and Android)

**User can:**

- Read temperatures and status of boiler
- Can see graphics of temperatures
- Can see weather temperature (internet resources)
- Set boiler temperature
- Set boiler power
- Manage chrono thermostat

**Technologies**

- IoT (Internet of Things)
- Connection Home Automation Systems (With Nest, mumit BEVEL, Tado and Netatmo smart devices)
- Cloud Connection





## AIR PELLET STOVE **ASTRA 6**

### Key features

- Automatic ignition, output regulation
- Room thermostat
- Exhaust fan speed modulation with encoder
- Daily and weekly programming
- Burning pot made of stainless steel
- Heat resistant ceramic glass
- Auto glass cleaning system
- Forced air ventilation
- Removable ash tray
- Remote control

### Safety features

- Safety against back burning
- Air pressure switch
- Safety thermostat
- Auto switch-off when there is no fuel
- Removable opening handle for child safety

### AVAILABLE COLOURS

- WINE RED
- BLACK



Extractable burn pot for easy cleaning



Room thermostat



Daily / Weekly programming



Remote control



Forced ventilation



Glass cleaning system



Special ceramic glass

Pellet stoves produce warm air to heat the room in which they are installed and, depending on the model, even adjacent rooms (using appropriate ducting).

Using advanced technology and useful features, our pellet stoves guarantee safety, programmability and a high level of operating autonomy.

Thermasis pellet stoves with ventilated design offers a comfortable heating for single or multiple rooms. Ventilated design ensures fast and efficient warming with less fuel consumption.

Our stoves are built with durable materials and well-known high quality components, having useful features like auto glass cleaning



### ASTRA 6

Energy efficiency class		A+
Rated output	kW	3,2 - 6,59
Thermal efficiency	%	88,5 - 90,7
Heatable volume	m³	125 - 160
Pellet consumption	kg/h	0,7 - 1,44
Tank capacity	kg	18 kg
Ø Flue outlet	cm	8
Ø Air inlet	cm	3,5
Net weight	kg	85
Dimensions H x W X L	cm	91 x 43 x 55
Power consumption	W	106 / 280
Dimensions H x W X L	cm	114 x 56 x 66
Power consumption	W	68 / 300







## AIR PELLET STOVE **ASTRA 8**

### Key features

- Automatic ignition, output regulation
- Room thermostat
- Exhaust fan speed modulation with encoder
- Daily and weekly programming
- Burning pot made of stainless steel
- Heat resistant ceramic glass
- Forced air ventilation
- Removable ash tray
- Remote control

### Safety features

- Safety against back burning
- Air pressure switch
- Safety thermostat
- Auto switch-off when there is no fuel
- Removable opening handle for child safety



Extractable burn pot for easy cleaning



Room thermostat



Daily / Weekly programming



Remote control



Forced ventilation



Glass cleaning system



Special ceramic glass

### AVAILABLE COLOURS

WINE RED  
BLACK



ASTRA 8		
Energy efficiency class		A+
Rated output	kW	3,96 - 8,55
Thermal efficiency	%	92,2 - 90,45
Heatable volume	m³	175 - 225
Pellet consumption	kg/h	0,92 - 1,85
Tank capacity	kg	21
Ø Flue outlet	cm	8
Ø Air inlet	cm	3,5
Net weight	kg	88
Dimensions H x W x L	cm	96 x 43 x 55
Power consumption	W	106 / 280



## AIR PELLET STOVE **COMET 8**

### Key features

- Automatic ignition, output regulation
- Room thermostat
- Exhaust fan speed modulation with encoder
- Daily and weekly programming
- Burning pot made of stainless steel
- Internal fire door with heat resistant ceramic glass and auto cleaning feature
- External stylish and tempered glass door with flame inspection clearance
- Forced air ventilation
- Removable ash tray
- Remote control

### AVAILABLE COLOURS

LIGHT GREY



Extractable burn pot for easy cleaning



Room thermostat



Daily / Weekly programming



Remote control



Forced ventilation



Glass cleaning system



Special ceramic glass



COMET 8		
Energy efficiency class		A+
Rated output	kW	3,96 - 8,55
Thermal efficiency	%	92,2 - 90,45
Heatable volume	m³	175 - 225
Pellet consumption	kg/h	0,92 - 1,85
Tank capacity	kg	21
Ø Flue outlet	cm	8
Ø Air inlet	cm	3,5
Net weight	kg	88
Dimensions H x W x L	cm	96 x 43 x 55
Power consumption	W	106 / 280



## AIR PELLET STOVE ASTRA 12

### Key features

- Automatic ignition
- Output regulation
- Room thermostat
- Exhaust fan speed modulation with encoder
- Burning pot made of stainless steel
- Heat resistant ceramic glass
- Auto glass cleaning system
- Forced air ventilation
- Removable ash tray
- Chrono management
- Remote control

### Safety features

- Safety against back burning
- Air pressure switch
- Safety thermostat
- Auto switch-off when there is no fuel
- Removable opening handle for child safety



Extractable burn pot for easy cleaning    Room thermostat    Daily / Weekly programming    Remote control    Forced ventilation    Glass cleaning system    Special ceramic glass

### AVAILABLE COLOURS

WINE RED  
BLACK

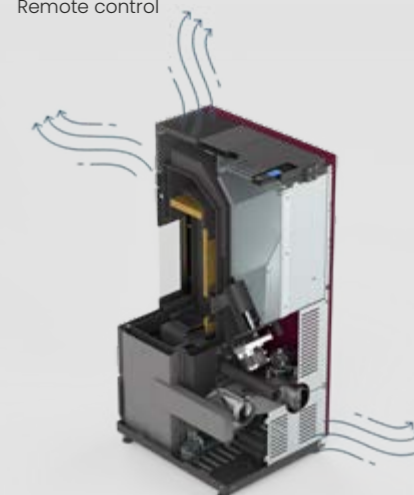
ASTRA 12		
Energy efficiency class		A+
Rated output	kW	5,02 - 11,55
Thermal efficiency	%	91,9 - 88,8
Heatable volume	m³	225 - 325
Pellet consumption	kg/h	1,06 - 2,55
Tank capacity	kg	30
Ø Flue outlet	cm	8
Ø Air inlet	cm	5
Net weight	kg	110
Dimensions H x W x L	cm	107 x 47 x 58
Power consumption	W	134 / 280



## AIR PELLET STOVE ASTRA 12 PLUS

### Key features

- Ductable hot air
- Heating of multiple rooms
- Duction with one independent motor
- Forced air ventilation
- Daily and weekly programming
- Remote control



### AVAILABLE COLOURS

WINE RED  
BLACK



Extractable burn pot for easy cleaning    Room thermostat    Daily / Weekly programming    Remote control    Forced ventilation    Glass cleaning system    Duction with 1 independent motor    Special ceramic glass

ASTRA 12 PLUS		
Energy efficiency class		A+
Rated output	kW	5,02 - 11,55
Thermal efficiency	%	91,9 - 88,8
Heatable volume	m³	225 - 425
Pellet consumption	kg/h	1,06 - 2,55
Tank capacity	kg	30
Ø Flue outlet	cm	8
Ø Air inlet	cm	5
Ø Ducting air outlet	cm	8
Ducting air temperature	oC	130
Net weight	kg	116
Dimensions H x W x L	cm	107 x 47 x 58
Power consumption	W	182 / 280





## PELLET INSERT (AIR) PUNTO

NEW  
PRODUCT

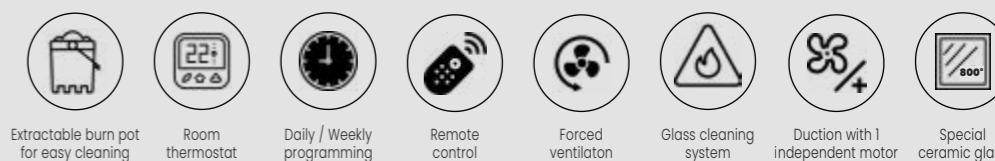


### Key features

- Single or multiple rooms
- Upper exhaust
- Burning pot made of stainless steel
- Heat resistant panoramic ceramic glass with auto cleaning.
- Integrated loading tray behind front grille
- Forced air ventilation
- Daily and weekly programming
- Room thermostat
- Remote control
- Optional ducting kit
- Compact size within its unique design perfectly fits spaces for conventional wood burning fireplaces
- Easy assembly / disassembly system

### Safety features

- Safety against back burning
- Air pressure switch
- Safety thermostat
- Emergency security



Thermasis pellet insert is the perfect union of a fireplace, a traditional symbol of time spent with the family, and the environmentally-friendly technology of pellet heating systems.

A pellet fireplace insert adds a unique detail to your home and can be inserted in an existing wall or used to convert your wood-burning fireplace into a pellet-burning stove.

As our pellet insert is equipped with a forced exhaust system, pellet burning fireplaces can be installed with a small chimney flue and off-centre in relation to the flue pipe connection.

Thanks to an attentive design, all of the equipment is easily accessible for maintenance

		PUNTO
Energy efficiency class		A+
Rated output	kW	3,2 - 8,2
Thermal efficiency	%	87,7 - 88,5
Heatable volume	m³	175 - 225
Pellet consumption	kg/h	0,75 - 1,85
Tank capacity	kg	14
Ø Flue outlet	cm	8
Ø Ducting air outlet (optional)	cm	8
Net weight	kg	95
Dimensions H x W X L	cm	53 x 69 x 55
Power consumption	W	182 / 280



Hydro pellet stoves or thermo pellet stoves produce both warm air to room, and hot water to radiators. They can supplement or replace a boiler by re-vamping an existing heating system and improving its operating costs; they also allow you to benefit from the warmth of a fire in the rooms where they are installed.

Thermasis hydro pellet stoves offer a complete range up to 24 kW, all hydraulic equipments and safety accessories packed inside the cabinet, with two independent finishing styles.



## HYDRO PELLET STOVE HYDRA



### Key features

- Automatic ignition, output regulation
- Exhaust fan speed modulation with encoder
- Daily and weekly programming
- Burning pot made of stainless steel
- Manually activated cleaning system in smoke pipes
- Heat resistant ceramic glass
- Auto glass cleaning system
- Removable ash tray
- Remote control

### Safety features

- Safety against back burning
- Air pressure switch
- Safety thermostat
- Water pressure switch
- Anti-freeze function
- Pump anti-seizure function
- Removable opening handle for child safety



Extractable burn pot for easy cleaning



Hydraulic kit included



Daily / Weekly programming



Remote control



Special ceramic glass



Glass cleaning system



Special ceramic glass

AVAILABLE COLOURS  
WINE RED



		HYDRA 12	HYDRA 16	HYDRA 24
Energy efficiency class		A++	A++	A++
Rated output	kW	5 - 12,1	6,7 - 16	10 - 24
Thermal efficiency	%	91 - 92,7	90,5 - 92,2	90,6 - 92,6
Heat output to water	kW	4,1 - 9,9	5,4 - 12,9	8,1 - 19,4
Heatable volume	m³	250 - 325	300 - 425	450 - 625
Maximum working pressure	bar	3	3	3
Pellet consumption	kg/h	1,0 - 2,54	1,0 - 2,54	2,15 - 5,1
Tank capacity	kg	27	32	36
Ø Flue outlet	cm	8	8	8
Ø Air inlet	cm	5	5	5
Net weight	kg	145	155	190
Dimensions H x W X L	cm	99 x 56 x 54	106 x 56 x 54	118 x 57 x 59
Power consumption	W	120 / 280	120 / 280	120 / 280

## HYDRO PELLET STOVE HYDRA PLUS



### Key features

- Daily and weekly programming
- Manually activated cleaning system in smoke pipes
- Double layer door design
- Internal fire door with heat resistant ceramic glass
- External tempered stylish glass door with flame nispetin clearance
- Auto glass cleaning system
- Removable ash tray
- Remote control

AVAILABLE COLOURS  
WINE RED  
LIGHT GREY



Extractable burn pot for easy cleaning



Hydraulic kit included



Daily / Weekly programming



Remote control



Special ceramic glass



Glass cleaning system



Special ceramic glass



		HYDRA 12 PLUS	HYDRA 16 PLUS	HYDRA 24 PLUS
Energy efficiency class		A++	A++	A++
Rated output	kW	5 - 12,1	6,7 - 16	10 - 24
Thermal efficiency	%	91 - 92,7	90,5 - 92,2	90,6 - 92,6
Heat output to water	kW	4,1 - 9,9	5,4 - 12,9	8,1 - 19,4
Heatable volume	m³	250 - 325	300 - 425	450 - 625
Maximum working pressure	bar	3	3	3
Pellet consumption	kg/h	1,0 - 2,54	1,0 - 2,54	2,15 - 5,1
Tank capacity	kg	27	32	36
Ø Flue outlet	cm	8	8	8
Ø Air inlet	cm	5	5	5
Net weight	kg	170	180	210
Dimensions H x W X L	cm	102 x 56 x 56	109 x 56 x 56	121 x 57 x 61
Power consumption	W	120 / 280	120 / 280	120 / 280



Wood, as a traditional fuel to warm our houses have become more and more efficient source of heating, when combined with gasification (or so called pyrolysis) process to produce eco-friendly and comfort heating, when operated with specific conditions generated by integration of the heating plant and the boiler design.

Our wood gasification boilers range «Solaris» and «Solaris LX» have the perfect design and dimensions to offer high efficiency for wood combustion, and high level of comfort for the heating, as well as very low pollutant emissions.

Gasification boilers are the perfect choice to our targets for increasing energy efficiency and reducing carbon foot-print.



Lambda sonda on Solaris LX model ensures the highest operational efficiency throughout whole process regulating the air supply, and combustion speed.

Manual or automatic adjustment of primary and secondary air volumes helps improve combustion and flue gas emissions.

Special cast high alumina refractory burner can operate up to 1600 C, and ensures good mixture of wood gas with secondary air, improving combustion and emissions

Integrated cooling loop for safety against overheating protects both boiler and installation

Depending on versions, we offer useful and functional command panel and interface for end-users

Our Solaris models have many technical advantages and useful features to be a part of your heating system:

Fully electronic boiler control functions: Operation is controlled by an electronic board with useful functions. Modulation of fan speed ensures correct adjustment of boiler outlet temperature with high comfort.

Heating circuit pumps is operated always at higher boiler temperatures to minimize condensation rate and protect boiler heating surfaces.

A domestic hot water cylinder can be integrated to the system, and DHW pump can be driven by original control panel of the boiler.

Double layer loading chamber: Dry internal surface by protecting shields in gasification chamber improves gasification process, and extends boiler lifetime





## WOOD BOILER (GASIFICATION) SOLARIS

### Key features

- Large and tall fuel loading chamber optimized for gasification process
- Exhaust fan speed modulation
- Auto activated by-pass system with loading door switch
- Auto switch-off when there is no fuel
- Flue gas thermostat
- High efficiency due to increased and smoke tubed water heating surfaces
- Independent primary and secondary air regulation
- Outputs for room thermostat and DHW pump

### Safety features

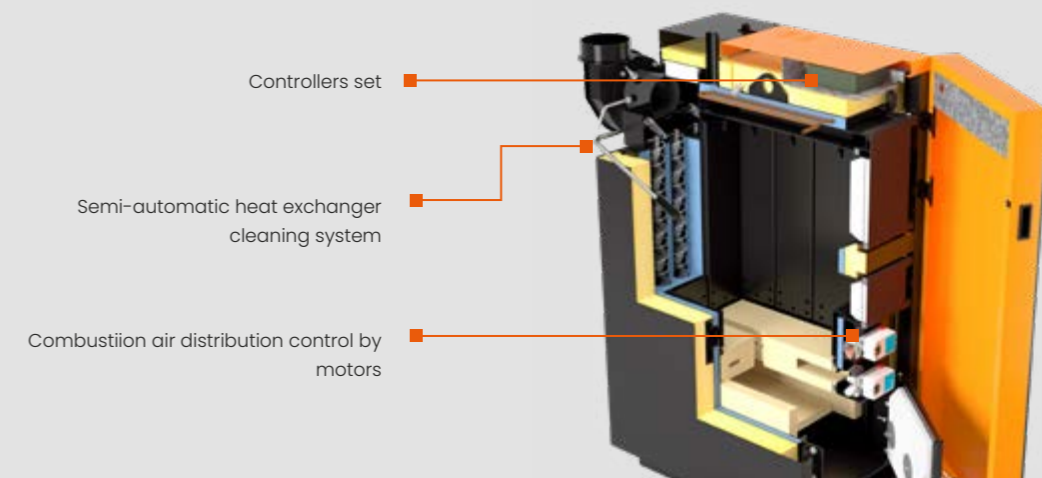
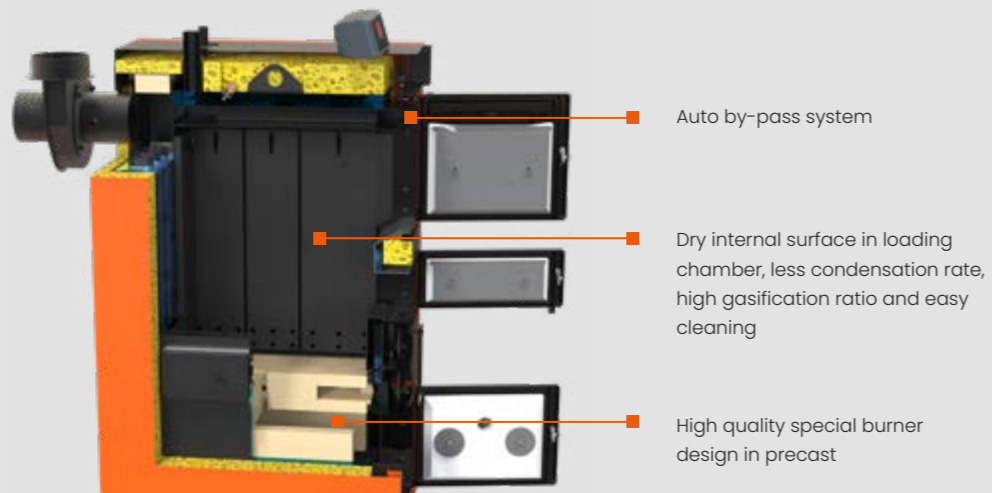
- Anti-freeze function
  - Auto switch-off when there is no fuel
- Protection against over-heating



## WOOD BOILER (GASIFICATION) SOLARIS LX

### Key features

- PID control
- Lambda sonda
- Auto primary and secondary air regulation via rotary dampers
- Minimized losses
- Combustion air modulation in respect with oxygen content in the flue
- Semi-automatic heat exchanger (smoke pipes) cleaning system
- Integrated cooling loop for protection against over-heating



	SLS 18	SLS 25	SLS 32	SLS 40	
Energy efficiency class	A+	A+	A+	A+	
Rated output	kW	18	25	32	40
Thermal efficiency	%	91,6	90,9	90,8	90,7
Water content	lt	72	87	91	124
Heatable volume	m³	250 - 375	300 - 550	400 - 675	500 - 875
Maximum working pressure	bar	3	3	3	3
Maximum wood length	cm	50	50	50	50
Fuel loading volume	dm³	90	120	130	140
Ø Flue outlet	cm	16	16	16	16
Net weight	kg	400	465	480	580
Dimensions H x W X L (w/o fan)	cm	132 x 55 x 84	142 x 60 x 86	148 x 60 x 86	155 x 60 x 86



	SLS 25 LX	
Energy efficiency class	A+	
Rated output	kW	25
Thermal efficiency	%	91,8
Water content	lt	87
Heatable volume	m³	300 - 550
Maximum working pressure	bar	3
Maximum wood length	cm	50
Fuel loading volume	dm³	120
Ø Flue outlet	cm	16
Net weight	kg	485
Dimensions H x W X L (w/o fan)	cm	142 x 60 x 86





Thermasis offers traditional cast iron boiler in new and compact design with optimum performance and useful features, still could be a good option to warm our houses

Our technology involving flexible casting process with chemical additions during process ensures very long operation life in the field.

Our boilers have availability to be used with pellets or non-woody biomass, conforming EN 303/5 Class 4 and Ecodesign



- Unique flue circulation principle gasses through passages resulting smooth turbulence, less back pressure and higher efficiency
- Original asymmetric section assembly
- 

**Optional features**

- Cooling loop with safety valve
- Version with fan and electronics
- Optional pellet burner assembly door to match majority burners in the market. Two door operation ensures faster switching from one fuel to another







## CAST IRON BOILER KAPPA

- Two pass flue circulation
- Water cooled and finned bottom grade
- Scaled thermometer
- EN-GJL 200 grade grey cast Iron boiler body, good finishing
- Optional pellet door
- Version with fan and electronics

### Optional use with non-woody biomass

- Kappa conforms Class 3 of EN 303/5 when fired with non-woody biomass with supplied accessories



	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	KP 9	KP 10
		KP 4F	KP 5F	KP 6F	KP 7F	KP 8F	KP 9F	KP 10F
Energy efficiency class	C	B	B	B	B	B	B	B
Number of sections	3	4	5	6	7	8	9	10
Output range (coal) kW	15-18	22-26	28-32	34-38	40-46	48-54	56-62	64-70
Output range (wood) kW	12-14	18-22	24-28	30-34	36-42	44-48	50-56	58-64
Water content lt	22	27,5	33,5	39,5	45,5	51,5	57,5	63,5
Maximum working pressure bar	4	4	4	4	4	4	4	4
Dimensions H x W x L cm	98 x 48 x 52	98 x 48 x 62	98 x 48 x 72	98 x 48 x 82	98 x 48 x 92	98 x 48 x 102	98 x 48 x 112	98 x 48 x 122
Net weight kg	178	206	238	270	332	334	366	398
Ø Flue outlet cm	16	16	16	16	16	16	17,5	17,5

### Optional use with non-woody biomass

- Kappa conforms Class 3 of EN 303/5 when fired with non-woody biomass with supplied accessories

	KP 4	KP 5	KP 6
Energy efficiency class	A	A	A
Output (biomass) kW	20	25	30
Thermal efficiency %	80,4	80,1	80,6
EN 303/5	Class 3	Class 3	Class 3



## CAST IRON BOILER LOGAN

- Three pass flue circulation
- Water cooled and finned bottom grade
- Scaled thermometer
- EN-GJL 200 grade grey cast Iron boiler body, good finishing
- Chimney flap controlled by front knob
- Furnace door ready for pellet burner assembly
- Version with fan and electronics



	KL 3	KL 4	KL 5	KL 6	KL 7	KL 8	KL 9	KL 10
		KL 4F	KL 5F	KL 6F	KL 7F	KL 8F	KL 9F	KL 10F
Energy efficiency class	B	B	B	B	A	A	A	B
Number of sections	3	4	5	6	7	8	9	10
Output range (coal) kW	16-20	22-30	32-40	42-50	52-60	62-70	72-80	82-90
Output range (wood) kW	14-16	18-24	26-32	34-40	42-48	50-56	60-66	70-76
Water content lt	27,5	34	41	47,5	54	60,5	66,5	73
Maximum working pressure bar	4	4	4	4	4	4	4	4
Dimensions H x W x L cm	106 x 54 x 61	106 x 54 x 71	106 x 54 x 81	106 x 54 x 91	106 x 54 x 101	106 x 54 x 111	106 x 54 x 121	106 x 54 x 131
Net weight kg	208	243	278	313	350	387	424	461
Ø Flue outlet cm	16	16	16	16	17,5	17,5	17,5	17,5

	KOMBI PACK 4	KOMBI PACK 5	KOMBI PACK 6
Energy efficiency class	A+	A+	A+
Burner	B-MAX B-home	B-MAX B-home	B-MAX B-home
Output range (pellet) kW	7,7 - 24,1	9,1 - 30,1	10,7 - 36,3
Thermal efficiency %	87,2 - 89,2	89,5 - 86,7	88,9 - 88,3
Pellet consumption kg/h	1,7 - 5,6	2 - 6,9	2,4 - 8,2
EN 303/5	Class 4	Class 4	Class 4
Ecodesign	YES	YES	YES

### Optional use with pellet burner

- Logan conforms Class 4 of EN 303/5 and Ecodesign when fired with pellet burners combined with supplied accessories
- When used with double door, Logan can fire woodlogs and pellets as multi-fuel boiler

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